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NOTICE OF ALLOWANCE AND FEE(S) DUE

42425

7590

04/29/2010

HICKMAN PALERMO TRUONG & BECKER/ORACLE
2055 GATEWAY PLACE
SUITE 550
SAN JOSE, CA 95110-1083

EXAMINER

ALAM, SHAHID AL.

ART UNIT

PAPER NUMBER

2162

DATE MAILED: 04/29/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/762,949	01/21/2004	Jay Rossiter	50277-2430	5968

TITLE OF INVENTION: PRE-DEFINED HARDWARE AND SOFTWARE BUNDLE READY FOR DATABASE APPLICATIONS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	07/29/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. **PROSECUTION ON THE MERITS IS CLOSED.** THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN **THREE MONTHS** FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. **THIS STATUTORY PERIOD CANNOT BE EXTENDED.** SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail **Mail Stop ISSUE FEE**
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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

42425 7590 04/29/2010

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Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/762,949	01/21/2004	Jay Rössiter	50277-2430	5968

TITLE OF INVENTION: PRE-DEFINED HARDWARE AND SOFTWARE BUNDLE READY FOR DATABASE APPLICATIONS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	07/29/2010

EXAMINER	ART UNIT	CLASS-SUBCLASS
ALAM, SHAHID AL	2162	707-603000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a **Customer Number is required.**

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1 _____
 (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 _____
 3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
☐ Publication Fee (No small entity discount permitted)
☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
☐ Payment by credit card. Form PTO-2038 is attached.
☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. **Change in Entity Status** (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____ Date _____
 Typed or printed name _____ Registration No. _____

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 375 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 375 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.

10/762,949

Examiner

Shahid Al Alam

Applicant(s)

ROSSITER ET AL.

Art Unit

2162

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to BPAI decision on March 22, 2010.
2. ☒ The allowed claim(s) is/are 1-4,6,8,9,11,16-26,31 and 33.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date 09302009
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

/Shahid Al Alam/
Primary Examiner, Art Unit 2162

DETAILED ACTION

In response to BPAI decision, claims 1 – 4, 6, 8, 9, 11, 16 – 26, 31 and 33 are allowed.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Daniel Ledesma on April 19, 2010.

The application has been amended as follows:

AMENDMENT TO CLAIMS

1. (Currently amended) A database appliance, comprising:
 - a database server;
 - a special purpose operating system having a set of components that include
 - some, but not all, components of a general purpose operating system,
 - whose configuration is dictated based on a said set of services required by the database server; and
 - a self-configuration module that is capable of performing the steps of:

detecting an environment in which the database appliance is being used;
and
configuring the database appliance based upon the detected environment;
wherein the database server is a special purpose database server;
wherein features and configuration of the special purpose operating system are
dictated by the special purpose database server and supporting
components;
wherein the special purpose database server is specially adapted based upon the
services required by a specific type of database usage;
wherein said type of database usage is one of an online transaction processing
application or an online analytical processing application;
wherein said database appliance is configured with an amount of resources
dedicated to I/O services that is based on whether said specific type of
database usage is an online transaction processing application or an
online analytical processing application; and
wherein said database appliance is configured with an amount of resources
dedicated to computational services that is based upon whether said
specific type of database usage is an online transaction processing
application or an online analytical processing application.

2. (Original) The database appliance of Claim 1, wherein the database server was generated from another database server by modifying the code of the other database server to optimize the code for execution on said database appliance.
3. (Original) The database appliance of Claim 1, wherein the hardware for said database appliance is selected and configured to optimize performance of one or more services to be performed by the database server.
4. (Original) The database appliance of Claim 1, wherein the hardware for said database appliance is selected and configured to optimize a cache hit ratio experienced by the database appliance.
5. (canceled)
6. (Original) The database appliance of Claim 1, wherein the special purpose operating system performs process scheduling based on shares of CPU time.
7. (Cancelled).
8. (Currently amended) The database appliance of Claim 1, wherein the special purpose operating system employs a ~~microkernel~~ microkernel and an associated service module.

9. (Currently amended) The database appliance of Claim 1, wherein the database server includes a mechanism for reading resource information within an address space of a ~~kernel~~ kernel of the operating system without causing a context switch to the operating system ~~kernel~~ kernel address space.
10. (canceled)
11. (currently amended) The database appliance of Claim ~~[[5]]~~1, wherein said specific type of database usage is an online transaction processing application and said database appliance is configured with relatively more resources dedicated to I/O services and relatively fewer resources dedicated to computational services.
- 12-15. (Cancelled).
16. (previously presented) A method for constructing a database appliance, comprising:
- installing, on a computer readable medium accessible to one or more processors, a database server;
 - generating a set of components of a special purpose operating system by removing one or more features of a general purpose operating system that

are not required to provide a set of services required by the database server; and
installing, on the computer readable medium, the special purpose operating system;
wherein the set of components include some, but not all, components of the general purpose operating system;
wherein configuration of the special purpose operating system is dictated based on the set of services.

17. (Original) The method of Claim 16, wherein the database server was generated from another database server by modifying the code of the other database server to optimize the code for execution on said database appliance.
18. (Original) The method of Claim 16, wherein the hardware for said database appliance is selected and configured to optimize performance of one or more services to be performed by the database server.
19. (Original) The method of Claim 16, wherein the hardware for said database appliance is selected and configured to optimize a cache hit ratio experienced by the database appliance.

20. (Original) The method of Claim 16, wherein the database server is a special purpose database server, wherein features and configuration of the special purpose operating system are dictated by the special purpose database server and supporting components, and wherein the special purpose database server is specially adapted based upon the services required by a specific type of database usage.
21. (Original) The method of Claim 16, wherein the special purpose operating system performs process scheduling based on shares of CPU time.
22. (Original) The method of Claim 16, wherein the method further comprises:
installing on the computer readable medium a self-configuration module that is
capable of performing the steps of:
detecting an environment in which the database appliance is being used;
and
configuring the database appliance based upon the detected environment.
23. (Currently amended) The method of Claim 16, wherein the special purpose operating system employs a ~~microkernel~~ microkernel and an associated service module.

24. (Currently amended) The method of Claim 16, wherein the database server includes a mechanism for reading resource information within an address space of a ~~kernel~~ kernel of the operating system without causing a context switch to the operating system ~~kernel~~ kernel address space.
25. (Original) The method of Claim 20, wherein said type of database usage is one of an online transaction processing application and an online analytical processing application, wherein said database appliance is configured with an amount of resources dedicated to I/O services that is based on whether said specific type of database usage is an online transaction processing application or an online analytical processing application, and wherein said database appliance is configured with an amount of resources dedicated to computational services that is based upon whether said specific type of database usage is an online transaction processing application or an online analytical processing application.
26. (Original) The method of Claim 20, wherein said specific type of database usage is an online transaction processing application and said database appliance is configured with relatively more resources dedicated to I/O services and relatively fewer resources dedicated to computational services.
- 27-30. (Cancelled).

31. (Previously Presented) The database appliance of Claim 1, wherein the step of modifying the general purpose operating system includes adding one or more features to the general purpose operating system, and wherein the one or more features are used to provide said set of services to the database server.
32. (Cancelled).
33. (Previously Presented) The method of Claim 16, wherein the step of modifying the general purpose operating system includes adding one or more features to the general purpose operating system, and wherein the one or more features are used to provide said set of services to the database server.
34. (Cancelled)

Allowable Subject Matter

The following is an examiner's statement of reasons for allowance:

In response to BPAI decision and as amended, claims 1 – 4, 6, 8, 9, 11, 16 – 26, 31 and 33 are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shahid Al Alam whose telephone number is (571) 272-4030. The examiner can normally be reached on Monday-Thursday 8:00 A.M.- 4:00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John E. Breene can be reached on (571) 272-4107. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Shahid Al Alam/
Primary Examiner, Art Unit 2162

April 20, 2010